

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/960,734 Confirmation No. : 4230
First Named Inventor : Klaus RINN
Filed : September 24, 2001
TC/A.U. : 2625
Examiner : Gregory M. Desire

Docket No. : 2098L/50402
Customer No. : 23911

Title : Method and Measuring Instrument for Determining the
Position of an Edge of a Pattern Element on a Substrate

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97 and 1.98**

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

CONCISE EXPLANATION OF NON-ENGLISH LANGUAGE DOCUMENT

The German article entitled "Strukturbreitenmessung mit lichtoptischen Verfahren" by W. Mirandé discloses a measuring method for measuring structures greater than 1 micrometer.

Concurrently herewith, Applicants are submitting a Request for Continued Examination and accordingly, the present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the


merits, and therefore no statement under 37 C.F.R. §1.97(e) or fee under 37 C.F.R. §1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

If necessary, the paper should be considered as a petition for consideration of the Information Disclosure Statement under 37 C.F.R. §1.97(d)(2) and that the petition fee set forth in 37 C.F.R. §1.17(i) in accordance with 37 C.F.R. §1.97(d)(3) should be charged to Deposit Account No. 05-1323 (Docket #2098L/50402).

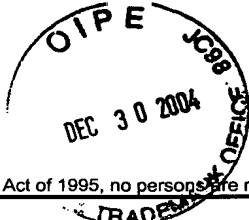
Respectfully submitted,

December 30, 2004


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PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	09/960,734		
		Filing Date	September 24, 2001		
		First Named Inventor	Klaus RINN		
		Art Unit	2625		
Sheet	1	of	2	Examiner Name	Gregory M. Desire
				Attorney Docket Number	2098L/50402

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)				
		US- 4,334,241		06-08-1982	Kashioka et al.	
		US- 4,567,364		01-28-1986	Kano et al.	
		US- 4,744,662		05-17-1988	Suto et al.	
		US-5,109,430		04-28-1992	Nishihara et al.	
		US- 5,136,661		08-04-1992	Kobayashi et al.	
		US- 5,375,175		12-20-1994	Kino et al.	
		US- 5,434,409		07-18-1995	Tsubusaki	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials'	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ –Number ⁴ –Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	09/960,734	
			Filing Date	September 24, 2001	
			First Named Inventor	Klaus RINN	
			Art Unit	2625	
Examiner Name	Gregory M. Desire				
Sheet	2	of	2	Attorney Docket Number	2098L/50402

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		<i>SPIE</i> , Vol. 3095 entitled "Advanced Mask Metrology System for up to 4Gbit DRAM" by Taro OTOTAKE et al., pp. 433-444	
		<i>IEEE Transactions on Industrial Electronics</i> , Vo. 35, No. 1, Feb. 1988 entitled "Subpixel Edge Detection and Estimation with a Microprocessor-Controlled Line Scan Camera" by Yu-Shan LI et al., pp. 105-112	
		<i>Matrox Imaging Library User Guide</i> , Manual No. 10328-MN-0300, Aug. 9, 1995, p. 138	
		<i>tm - Technisches Messen</i> 61, (1994) 10 entitled "Near-Field and Far-Field Scanning Microscopy on Features in the Sub-micrometer Range" by Heinrich GEUTHER et al., pp. 1-18	
		<i>VDI BERICHTE</i> 659, Symposium Braunschweig 3, bis No. 6, 1987 entitled "Strukturbreitenmessung mit lichtoptischen Verfahren" by W. Mirandé pp. 319-330	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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